

New results in BEM for Electromagnetic Compatibility

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Electromagnetic Compatibility (EMC) modelling is a major issue in aeronautic industry, with applications like Lightning Indirect Effects, High-Intensity Radiated Fields, antenna coupling, wifi... These simulations represent many challenges for the numerical solvers: very large frequency band (starting from DC), need for local models (wires, slots, equipment...), low levels of currents and fields inside cavities, presence of geometric and data singularities and the need of robust adaptive meshing procedures... and finally the model size requires efficient fast and parallel solvers. We present new results on these issues.

Presenter: ABBOUD, Toufic (IMACS)